

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P866279

Luminaire Tested: PRLX-2002-M-935-07L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866279  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-38)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-M-935-07L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

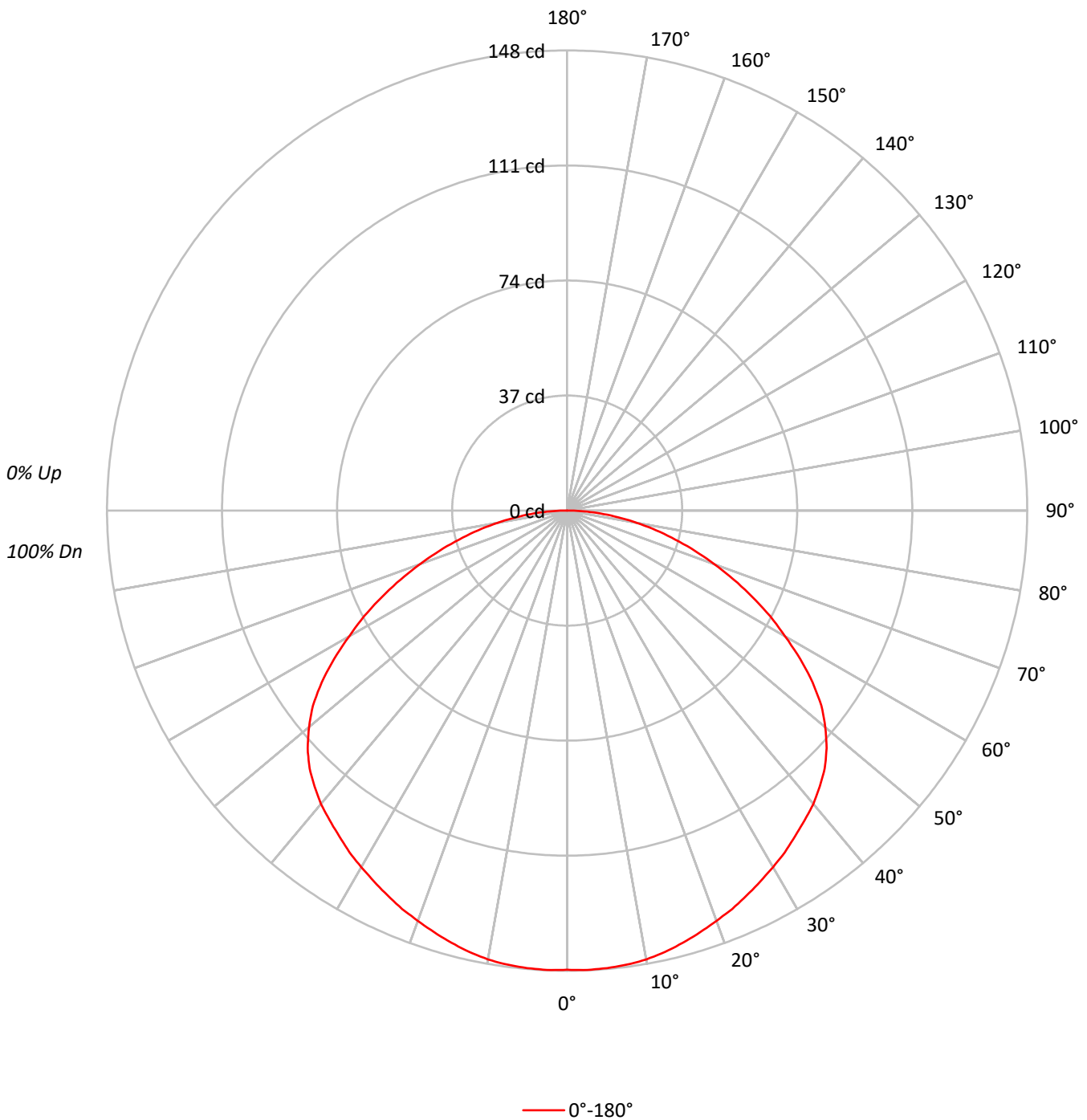
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 489.2 lumens  
Efficiency: N/A  
Efficacy: 59.7 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 8.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	35	30	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1175
5°	1180
10°	1184
15°	1185
20°	1189
25°	1199
30°	1216
35°	1241
40°	1279
45°	1319
50°	1342
55°	1337
60°	1289
65°	1237
70°	1172
75°	1107
80°	1045
85°	977

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 1347 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.1	2.9
10°-20°	40.7	8.3
20°-30°	63.1	12.9
30°-40°	80.2	16.4
40°-50°	90.2	18.4
50°-60°	85.7	17.5
60°-70°	65.1	13.3
70°-80°	38.2	7.8
80°-90°	12.0	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	117.8	24.1
0°-40°	198.0	40.5
0°-60°	373.9	76.4
0°-90°	489.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	489.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	148	
5°	148	14
15°	144	41
25°	137	63
35°	128	80
45°	117	90
55°	96	86
65°	66	65
75°	36	38
85°	11	12
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	147.7
2.5°	147.9
5°	147.7
7.5°	147.3
10°	146.6
12.5°	145.4
15°	143.9
17.5°	142.2
20°	140.4
22.5°	138.7
25°	136.6
27.5°	134.5
30°	132.4
32.5°	130.3
35°	127.8
37.5°	125.5
40°	123.2
42.5°	120.3
45°	117.2
47.5°	113.2
50°	108.4
52.5°	103.1
55°	96.4
57.5°	88.9
60°	81.0
62.5°	73.6
65°	65.7
67.5°	58.0
70°	50.4
72.5°	43.1
75°	36.0
77.5°	29.3
80°	22.8
82.5°	16.5
85°	10.7
87.5°	5.4
90°	0.0



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.38	15.07	13.74	15.39	15.70	13.38	15.07	13.74	15.39	15.70
	3H	15.18	16.71	15.55	17.04	17.40	15.18	16.71	15.55	17.04	17.40
	4H	15.87	17.32	16.27	17.67	18.04	15.87	17.32	16.27	17.67	18.04
	6H	16.42	17.77	16.83	18.13	18.52	16.42	17.77	16.83	18.13	18.52
	8H	16.61	17.90	17.04	18.29	18.69	16.61	17.90	17.04	18.29	18.69
	12H	16.76	17.99	17.18	18.37	18.80	16.76	17.99	17.18	18.37	18.80
4H	2H	14.02	15.47	14.41	15.81	16.19	14.02	15.47	14.41	15.81	16.19
	3H	16.04	17.26	16.45	17.66	18.06	16.04	17.26	16.45	17.66	18.06
	4H	16.87	17.98	17.30	18.39	18.82	16.87	17.98	17.30	18.39	18.82
	6H	17.56	18.53	18.01	18.97	19.42	17.56	18.53	18.01	18.97	19.42
	8H	17.81	18.72	18.27	19.16	19.62	17.81	18.72	18.27	19.16	19.62
	12H	18.01	18.83	18.48	19.30	19.77	18.01	18.83	18.48	19.30	19.77
8H	4H	17.21	18.12	17.67	18.56	19.02	17.21	18.12	17.67	18.56	19.02
	6H	18.03	18.79	18.52	19.28	19.75	18.03	18.79	18.52	19.28	19.75
	8H	18.37	19.05	18.87	19.55	20.04	18.37	19.05	18.87	19.55	20.04
	12H	18.65	19.26	19.16	19.75	20.31	18.65	19.26	19.16	19.75	20.31
12H	4H	17.25	18.08	17.73	18.55	19.02	17.25	18.08	17.73	18.55	19.02
	6H	18.11	18.79	18.61	19.29	19.78	18.11	18.79	18.61	19.29	19.78
	8H	18.50	19.11	19.01	19.60	20.16	18.50	19.11	19.01	19.60	20.16